

## **ITEM 1000170689 SPECIFICATION**

### **1A. GENERAL ASSEMBLY**

THE COMPLETE TRAILER MOUNTED ATTENUATOR (TMA) WITH FLASHING ARROW BOARD SHALL BE DESIGNED TO MAKE ATTACHMENT OR DETACHMENT FROM THE TRUCK SIMPLE AND FAST WITH A 20 TON PINTLE HITCH. MAJOR COMPONENTS (LISTED BELOW) STAY TOGETHER WHEN DETACHED FROM THE SUPPORT VEHICLE. THE TRAILER MOUNTED ATTENUATOR MUST BE CAPABLE OF BEING TOWED BY A VARIETY OF VEHICLES WITH SIZES RANGING FROM 13,500 GVW TO 25,000 GVW AND STILL MEET ALL MASH-2016 TESTS OUTLINED BELOW. THE TMA FRAME SHALL BE CAPABLE OF COLLAPSING WHEN IMPACTED BY AN ERRANT VEHICLE. NO PORTION OF THE TMA SHALL PROTRUDE FORWARD UNDER THE TRUCK DAMAGING ITS VITAL ELEMENTS DURING AN IMPACT.

THE TMA SYSTEM WITH FLASHING ARROW BOARD MUST BE DELIVERED ASSEMBLED AND READY FOR MOUNTING ON SUPPORT VEHICLE.

### **1B. MAJOR COMPONENTS**

THE TRAILER MOUNTED ATTENUATOR W/ FLASHING ARROW BOARD WILL CONSIST OF THE FOLLOWING MAJOR COMPONENTS:

- 1- CURVED ALUMINUM TUBE FRAMES
- 2- FOUR (4) ALUMINUM ENERGY ABSORBING MODULES
- 3- REAR MOUNTED SUSPENSION, AXLE, AND WHEELS W/ FENDERS
- 4- TELESCOPING ANT-ROTATION SYSTEM
- 5- ATTACHED 4' x 8' 15 LED LIGHT FLASHING ARROW BOARD WITH MANUAL TILT MOUNTING BRACKET ASSEMBLY HARD WIRED TO TRAILER LIGHT PLUG WITH CONTROLLER MOUNTED DIRECTLY ON THE TMA IN A WATER PROOF HOUSING ON THE ARROW BOARD UPRIGHTS

### **1C. MINIMUM WEIGHT AND DIMENSIONS**

LENGTH- 17' 10"

WIDTH- 8'

HEIGHT- 36"

WEIGHT- 1,925 LBS W/O ATTACHED FLASHING ARROWBOARD

### **1D. JACK**

ONE HAND CRANK JACK WITH SWIVEL CASTER WITH A TOTAL RATED LOAD CAPACITY OF AT LEAST 272 KG (600LBS) SHALL BE SUPPLIED WITH THE TMA TO FACILITATE REMOVING IT FROM A TRUCK FOR STORAGE.

### **1E. PAINT**

ALL EXPOSED STEEL SURFACES ON THE TMA SHALL BE PAINTED BLACK. PAINT SHALL BE APPLIED AFTER THE PROPER PREPARATION OF ALL STEEL AND ALUMINUM COMPONENTS. THE METAL PREPARATION SHALL INCLUDE CLEANING, DEGREASING AND ABRADING THE METAL SURFACE. PRIMER SHALL BE USED IF NOT POWDER COATED.

1F. CRASH TESTING CRITERIA

THE TMA SHALL HAVE BEEN TESTED TO, AND SUCCESSFULLY PASSED ALL 4 TESTS THAT FALL UNDER THE GUIDELINES OF MASH-2016 TEST LEVEL 3 FOR TRUCK MOUNTED ATTENUATORS.

1G. LIGHTING AND VISIBILITY

THE TMA SHALL HAVE A TRAILER LIGHTING ASSEMBLY PER FMVSS NO. 108 "LAMPS, REFLECTIVE DEVICES, AND ASSOCIATED EQUIPMENT." ALL COMPONENTS SHALL BE APPROPRIATE FOR THEIR INTENDED PURPOSE UNDER ANY ADOPTIONS ISSUED BY THE NHTSA, SAE AND FMVSS. THIS IS STANDARD PRACTICE FOR ELECTRICAL LIGHTING. THE TMA SHALL INCLUDE BRAKE LIGHTS, TAILLIGHTS, TURN SIGNALS AND AN ICC BAR LIGHT. MOLDED CONNECTORS SHALL BE USED WHERE INDIVIDUAL WIRES WOULD OTHERWISE BE EXPOSED TO THE ELEMENTS. A STANDARD, SINGLE, 7 PIN TRAILER CONNECTOR SHALL MAKE THE CONNECTION FOR ALL LIGHTS AND ARROW BOARD TO THE BACK OF THE TRUCK.

THE SURFACE OF THE IMPACT FRAME FACING ONCOMING TRAFFIC SHALL DISPLAY A BLACK ON YELLOW INVERTED CHEVRON PATTERN WITH 4 IN. WIDE COLOR BANDS. THE COLORS SHALL MEET THE VALUE AND TOLERANCE LIMITS ESTABLISHED BY MUTCD.

1H. ACCEPTABLE BRANDS/MODELS

SCORPION II TRAILER ATTENUATOR BY TRAFFIX DEVICES, INC OR EQUAL